

```
octave:1> y=2;
octave:2> g=y.^3-2;
octave:3> dg=3*y.^2;
octave:4> for k=2:10
> y(k)=y(k-1)-g(k-1)/dg(k-1);
> g=y.^3-2;
> dg=3*y.^2;
> end
octave:5> [y',g',dg']
ans =
```

2.000000000000000e+00	6.000000000000000e+00	1.200000000000000e+01
1.500000000000000e+00	1.375000000000000e+00	6.750000000000000e+00
1.296296296296296e+00	1.782756693593455e-01	5.041152263374485e+00
1.260932224741748e+00	4.819285792566408e-03	4.769850226176526e+00
1.259921860565926e+00	3.860582730830231e-06	4.762209284195715e+00
1.259921049895395e+00	2.484235039901250e-12	4.762203155908542e+00
1.259921049894873e+00	0.000000000000000e+00	4.762203155904599e+00
1.259921049894873e+00	0.000000000000000e+00	4.762203155904599e+00
1.259921049894873e+00	0.000000000000000e+00	4.762203155904599e+00
1.259921049894873e+00	0.000000000000000e+00	4.762203155904599e+00